

ALAMEDA COUNTY CONGESTION MANAGEMENT AGENCY

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Memorandum

*May 11, 2009
Agenda Item 7.1*

Date: April 30, 2009

To: **Sunol Express Lane Joint Powers Authority**

From: Ray Akkawi, Manager of Project Delivery

Subject: I-680 Express Lane Project: Enforcement Technology and Methodology- Update

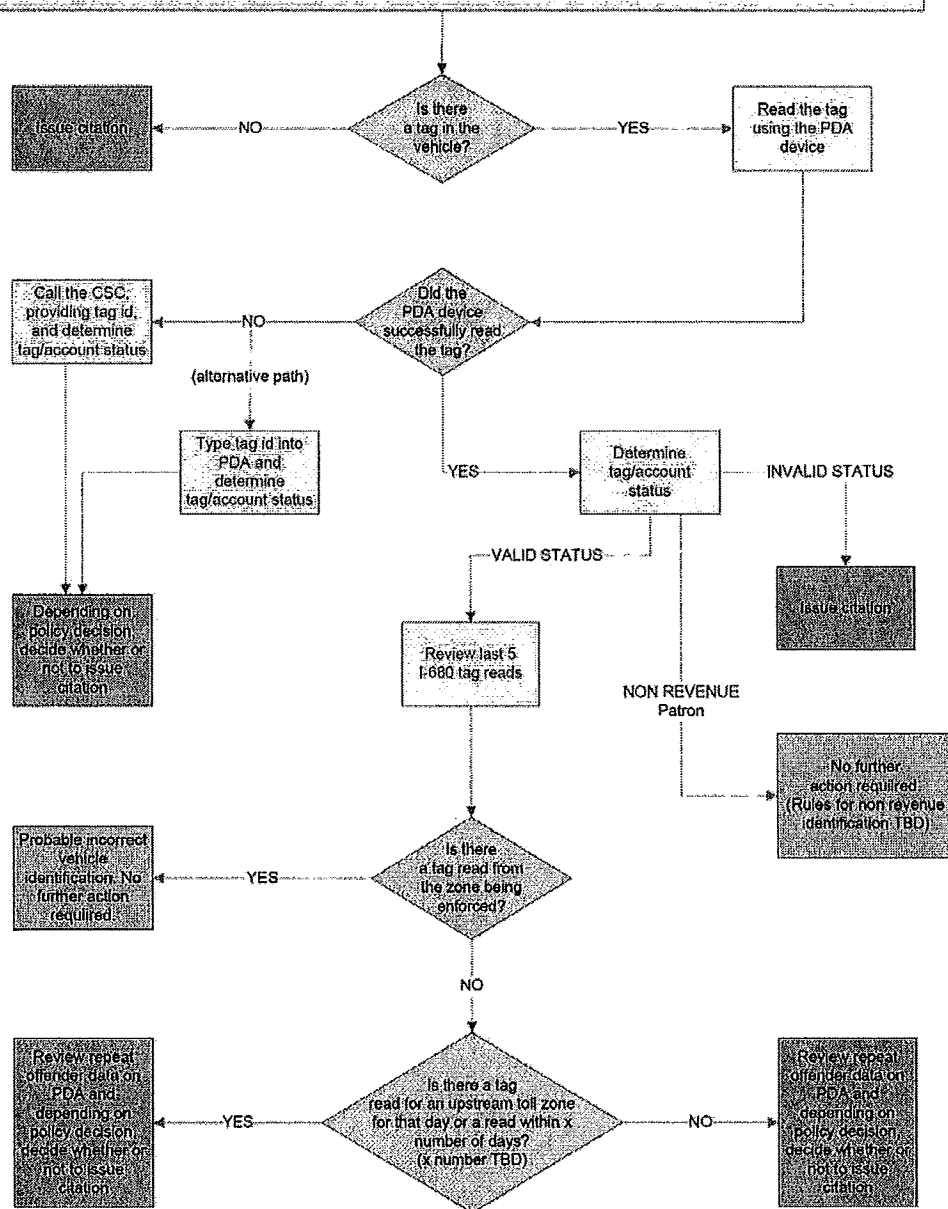
Effective enforcement of the express lane requires providing the enforcing agency with the proper enforcing devices, enforcement policy, and supporting documentation. Several meetings have been held with California Highway Patrol (CHP) Agency and staff from Caltrans, Bay Area Toll Authority (BATA), the express lane designer consultant, and the System Integrator consultant to discuss the methodologies and the requirements to effectively enforce the facility. The following were recommendations from these meetings:

1. Provide a two-beacon lights system with two different colors (amber and green) at the top tolling gantry. The amber light for potential violator and green light for patron with a valid account.
2. Provide another two-beacon lights system at a barrier height level to allow the officer to observe from his/her cruiser.
3. Relocate the intermediate tolling zones to a safer area where officers can park behind a barrier protected enforcement area. These locations were discussed with Caltrans and will require a design exception to allow the separation of the barrier in a wide median.
4. Educate the officer with a decision making flowchart (see attached flowchart) to help the officer make the right decision regarding a potential violator.
5. Provide the officer with backup documentation about the potential violator last transponder read and account validation. The Toll Data Center and BATA Customer Service Center will communicate this information to the handheld device provided to the officer.

While CHP is reviewing the decision flowchart, the designer is preparing the geometrics for the proposed new observation areas to submit for Caltrans review and approval. Staff will bring the policy issues to the board at a future board meeting.

Proposed CHP Mobile Enforcement Process Flow for I-680

1. After detecting an amber beacon for a vehicle with only 1 patron inside, the CHP officer will pull that vehicle over and then attempt to read the tag which should be in the windshield of that vehicle using the handheld reader / PDA device.



What tag/account status information should the application return?

- Option 1. 'Tag Valid', 'Tag Invalid', 'Non Revenue'
 Option 2. 'Tag Valid', 'Tag Invalid (Lost/Stolen)', 'Tag Invalid (Zero Balance/Revoked)',
 'Tag Invalid (Unknown)', 'Non Revenue'